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A rotating shaft with radial press device comprises a cylindrical rod and at least a friction part. The cylindrical rod extends from the rotating shaft and provides at least a milled face. The friction part is a ring piece composed of a circular section and an arched section and a gap is formed between the circular section and the arched section. An axial hole is surrounded by both of the circular section and the arched section for accommodating the cylindrical rod. Further, the arched section has a gradually reduced inner radius. As soon as the cylindrical rod is tightly pressed by the arched section, a position of standstill can be formed and when the milled face touches the free end of the arched section, the cylindrical rod can move in a direction so that the milled face keeps contact with the free end of the arched section in a state of locking automatically.